GIA – Get Intune Assignments

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About

Get Intune Assignments is a C#.NET free app built for Intune that queries Intune and Entra ID via MS Graph.
This app aims to retrieve all active Intune item assignments.
The focus is to retrieve Assignments, so if you have an item (policy, settings, app) but it does not have an assignment, GIA will not report it.
You can also export the data to a CSV file if desired.
Please send me any comments you would like. This can help me fix bugs and create better solutions to help everyone.

Copyrights Warranty and Support

This application is **completely free**. I created it for **personal** needs and my **work** needs, as it was extremely useful, I decided to share it with the community.
I created this app in my spare time which I don't have much of, like most people, so I can't provide support or guarantee that the app will work as expected in your environment.
I'm just trying to do my part in the world.
You don't need to use this app; you don't need to be rude to me because you don't know me and don't trust me or think the app is malicious. Like I said: you have no obligation to use the app. If you want to give it a try, I hope it can be helpful to you and/or your clients.
And **feel free** to **send** me **feedback** as it helps everyone.

Document Version

This document was updated on **April 04, 2024**.

Requirements

User access to Intune and Entra ID Resources:

Users must have access to <mark>Read</mark> **All** Intune Items and queries for Entra ID Groups, Devices and Users.

Create/Register an Entra ID App to Get Intune Assignments and get data from the environment.

Follow the **Read Rights** the User and the App may need:

```
Device.Read.All
DeviceManagementApps.Read.All
DeviceManagementConfiguration.Read.All
DeviceManagementManagedDevices.Read.All
DeviceManagementServiceConfig.Read.All
Group.Read.All
GroupMember.Read.All
Policy.Read.All
User.Read.All
```

Creating an App Registration on your ENTRA ID.

GIA uses an **App Registered** to get MS Graph Token Authentication to be able to query your Intune and Entra ID Environment.

> **Note**
> You can use any App you already have if your App have the **Read** Permissions Required.
> **For Best Practices** and **Safety** use an App with **Read Only** Permissions

Log in to the Entra ID Portal with an user who have permission to register Apps.

Go to the App Registrations Blade.

Click **New registration** to create an App:
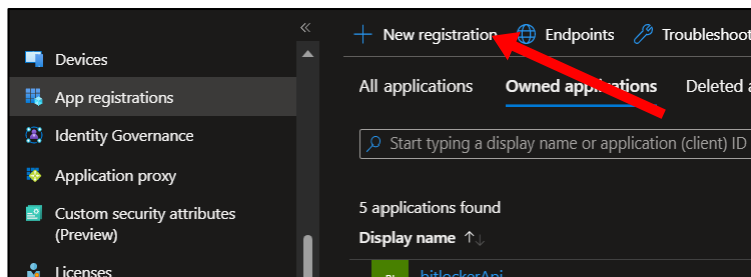
Give a **Name** for your application i.e., "**GIA**".

Select the Supported account types i.e., "**Accounts in this organizational directory only (YOURDOMAIN.COM only - Single tenant)**"

At **Redirect URI** (optional) choose **Public client/native (mobile & desktop)** and enter the following address: "**https://login.microsoftonline.com/common/oauth2/nativeclient**"

Click the **Register** button.

After creating/registering the App. **Copy** your **application (client) ID** to use in GIA settings:

If you want to use **Client Secret** (<mark>optional</mark>) you can click **Certificate & secrets** to create a secret to your App:
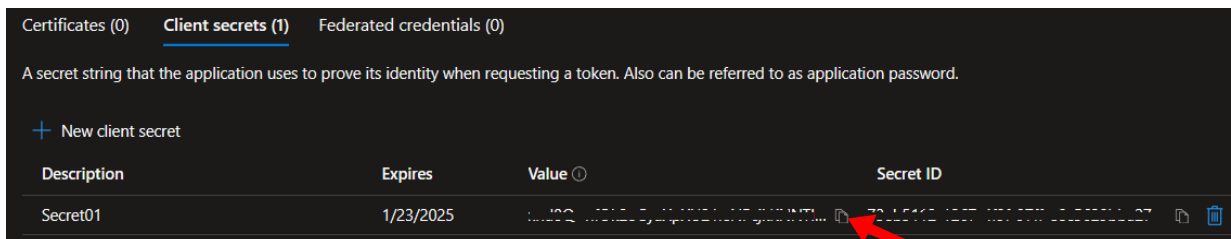
Click on **Client secrets** and "**+ New client secret**":
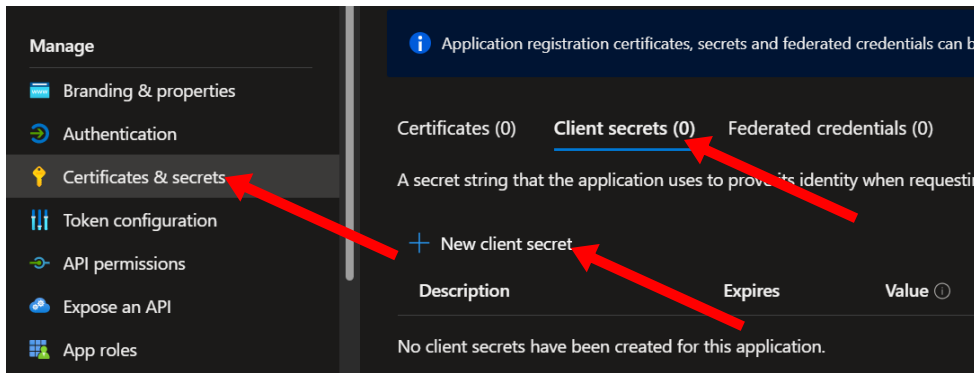
Determine how much time you want your secret to **expire** and click the **Add** button:
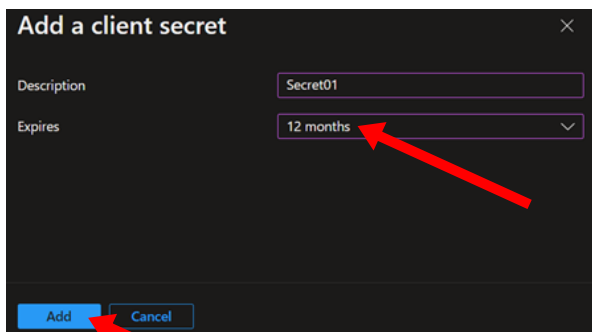
When finished **copy the Value** of the Secret:

Note

After creating Secrets, you **Need to Copy** the **Value**.
The value will be hidden after you leave this page.
So, **Don't Forget to copy** the Value before leave.

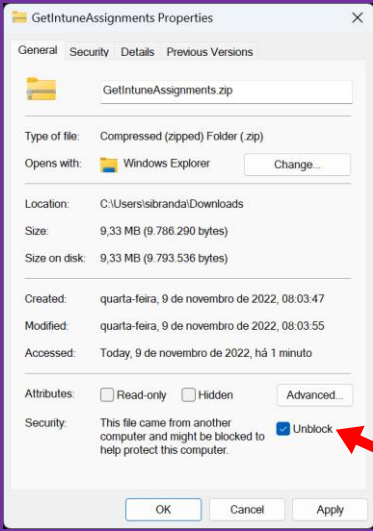# Starting with Get Intune Assignments Application.

Go to the **Folder** where you **download** the **Get Intune Assignments** Application:

First, check if the Zip file you downloaded is not **Locked**.

Note

When the file is downloaded from internet
It can be blocked for safety.
Check if your Zip file is not **Blocked**:

Before Extract
Right click on the file
Go to the **Properties**
Uncheck the "**Unblock**" checkbox if need!
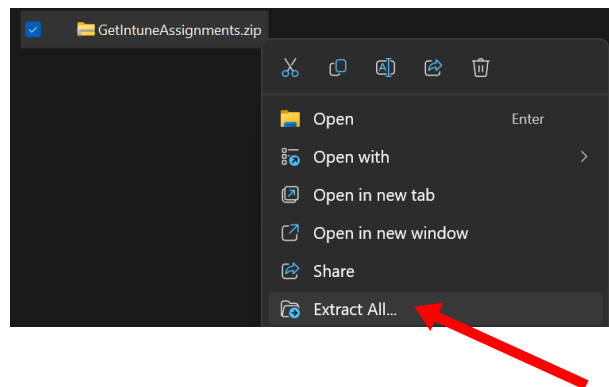Click **Ok**.
Then, you can extract the content.

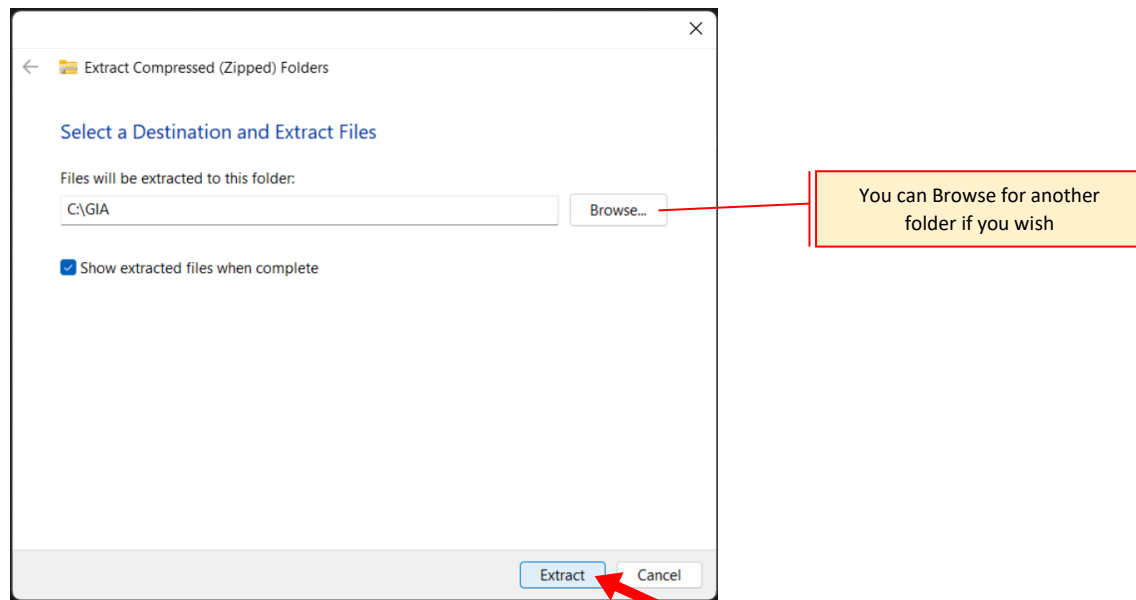Extract Get Intune Assignments App from zip file
You can use any tool you want for this.

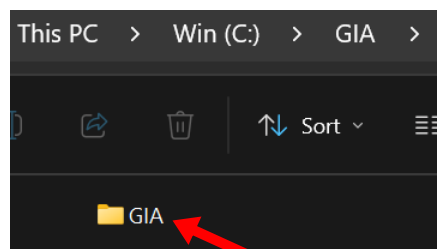Here is how to use **Windows Compressed Folder** to extract:

Right click on the File and Click on **Extract All**…

In the wizard window hit **the Extract** button and wait to complete.

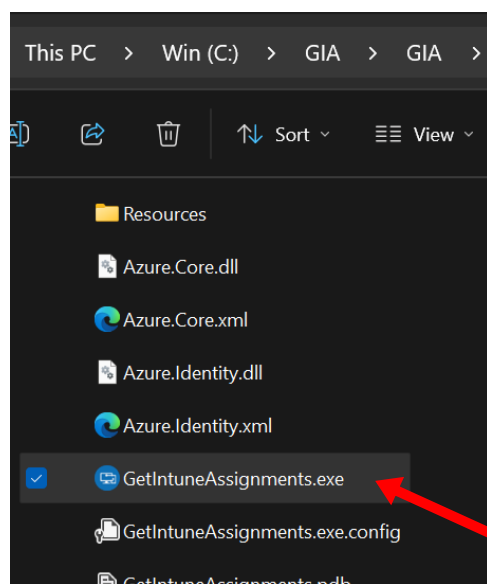You can Browse for another folder if you wish

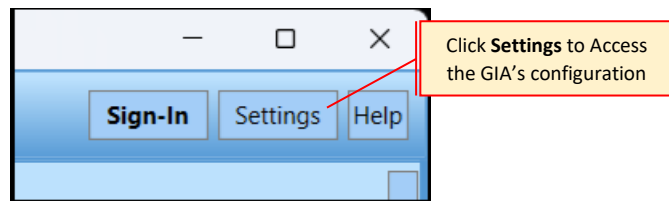Will be created a new **folder** at directory you choose:

Open this folder and locate the **GetIntuneAssignments executable** file.
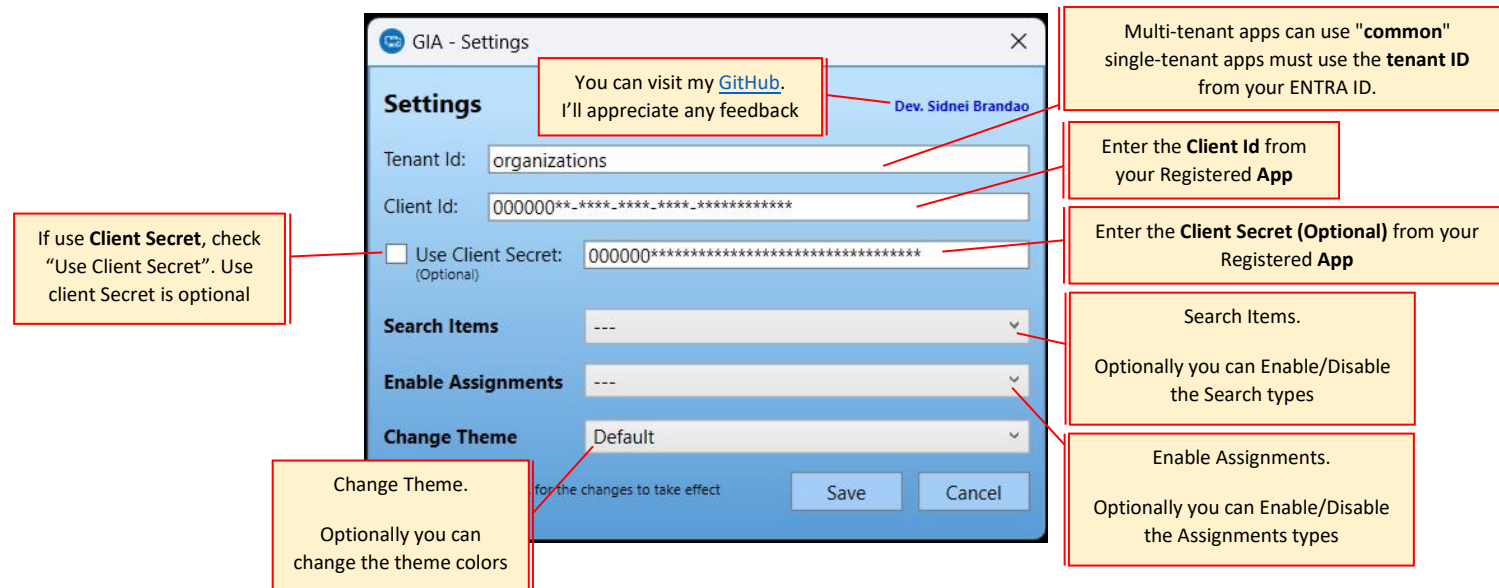
Double click to run the Application.

Configuring Get Intune Assignments Application.

In the Main Windows from **Get Intune Assignments** click the **Settings** button in the upper right corner.

Click **Settings** to Access the GIA's configuration

Enter your environment data like **Client Id**, **Tenant Id** and Client Secret if's needed.

Then click **Save** button to save the settings.

GIA - Settings

You can visit my GitHub. I'll appreciate any feedback

Dev. Sidnei Brandao

Multi-tenant apps can use "**common**" single-tenant apps must use the **tenant ID** from your ENTRA ID.

Enter the **Client Id** from your Registered **App**

If use **Client Secret**, check "Use Client Secret". Use client Secret is optional

Enter the **Client Secret (Optional)** from your Registered **App**

Search Items.

Optionally you can Enable/Disable the Search types

Enable Assignments.

Optionally you can Enable/Disable the Assignments types

Change Theme.

Optionally you can change the theme colors

Note

Be sure to enter the correct application (Client Id)
from your app to Get Intune Assignments Work properly.
Get Intune Assignments Will **Restart** to apply the changes.

Running Get Intune Assignments Application.

After configuring all the settings you can **Run** the **application**.

Just execute **GetIntuneAssignments.exe**

GetIntuneAssignments.exe
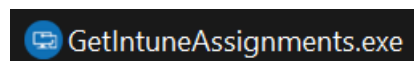
The Application will start.

Click on **Sign-In** Button and enter your **Entra ID User** who has **Rights** to **read Intune** and **Entra ID** objects.

First Time Sign-In using a User, the Permission dialog box will ask you to **consent/accept the permissions**.

Permissions requested

GIA

This application is not published by Microsoft.

This app would like to:

- ∨ Read all devices
- ∨ Read Microsoft Intune apps
- ∨ Read Microsoft Intune Device Configuration and Policies
- ∨ Read devices Microsoft Intune devices
- ∨ Read Microsoft Intune configuration
- ∨ Read all groups
- ∨ Read group memberships
- ∨ Read your organization's policies
- ∨ Read all users' full profiles
- ∨ Maintain access to data you have given it access to

☐ Consent on behalf of your organization

Accepting these permissions means that you allow this app to use your data as specified in their terms of service and privacy statement. You can change these permissions at https://myapps.microsoft.com. Show details

Does this app look suspicious? Report it here

Cancel   Accept

Note

ALL Permissions application needs is set to **READ**. Get Intune Assignments **Can't** and **Won't** change anything in your environment

Optionally you can check Consent on behalf of your organization

Confirm everything is **READ** permissions.

If you want, check the "Consent on behalf of your organization" then click **Accept Button**

Consent on behalf of your organization is optional for user autentication.

> **Note**
> Get Intune Assignments needs **Read Only** permissions.
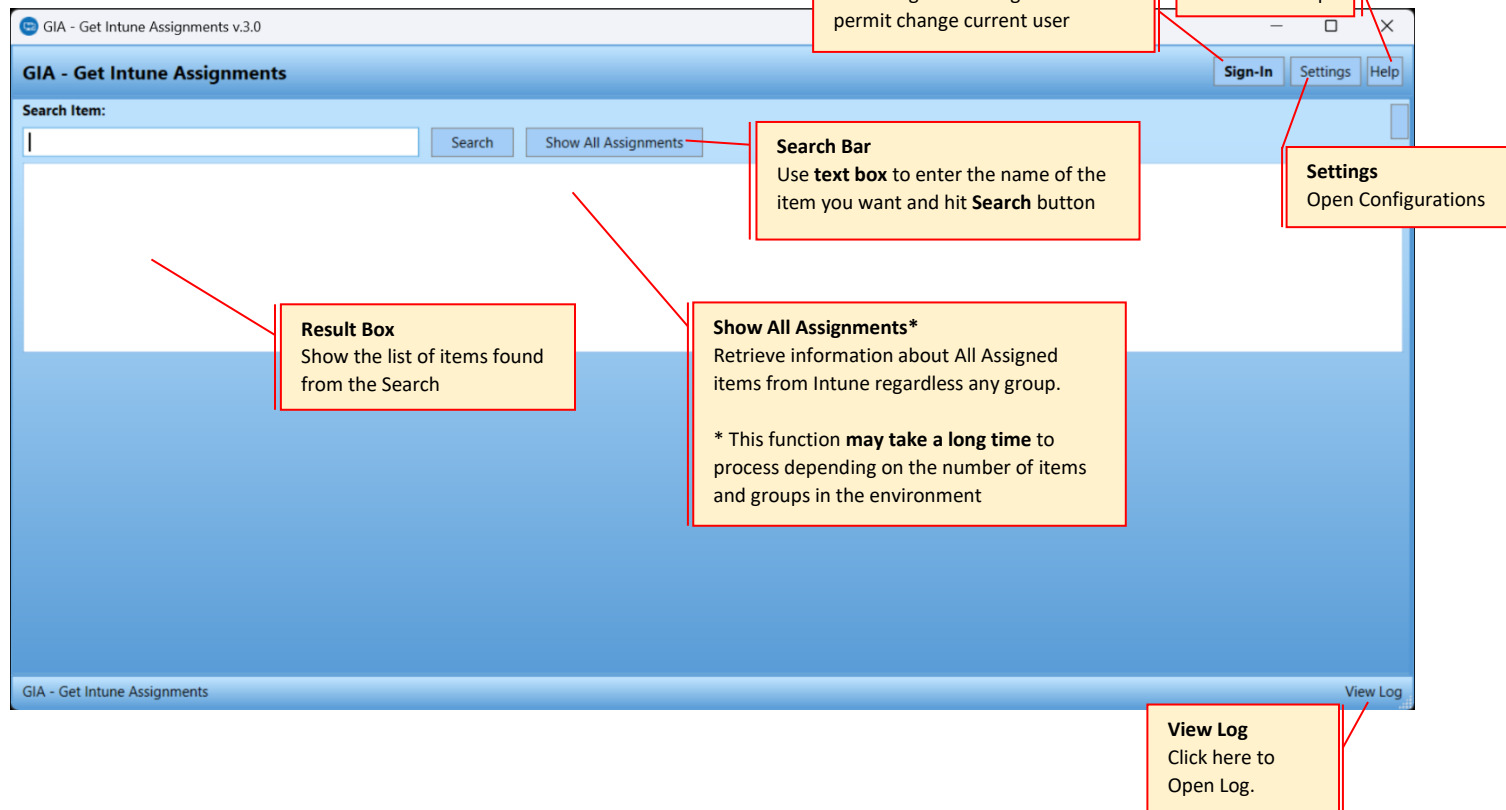> The App will **NEVER** change anything in your environment.

After the Accept you can see the user is **Signed In**:

Welcome sidnei@   **Sign-Out**   Settings   Help

Signed user UPN.
If using Secret App, GIA will show: **Using App Secret**

GIA Interface.

This is the new interface from **GIA 3.0**.

Sign-In / Sign-Out
Use to Sign-In and Sign-Out also permit change current user

Help
Show This Help

Search Bar
Use **text box** to enter the name of the item you want and hit **Search** button

Settings
Open Configurations

Result Box
Show the list of items found from the Search

Show All Assignments*
Retrieve information about All Assigned items from Intune regardless any group.

* This function **may take a long time** to process depending on the number of items and groups in the environment

View Log
Click here to Open Log.

How to retrieve Information from specific ENTRA ID Group.

Type any string to search for a group and hit [Search] **Button**:
After searching, just **click on the item** you want to retrieve Information.

To retrieve the information about the **Assignments**, click on the Item you want i.e. Device Configuration Profiles:

Retrieving Information from All Intune Assignments.

You can retrieve **all Intune assignments**, regardless of groups, users or devices.
In this case, you don't need to look for any item.
Just click the button Show All Assignments

> **Note**
> Remember that **GIA only brings** items that **have Assignments** configured, if you don't see an item from your environment, it probably doesn't have an assignment for any user, device or group configured.

> **Note**
> Keep in mind this action **may take a long time** to process depending on the number of Items and groups in the environment.

Group Members Information.

Starting on **GIA 3.0** you can retrieve more information about **Group members**, like **primary users**, **logged on user** and **member off**.

You just need to search for a group and select a **member**:

New Items to search.
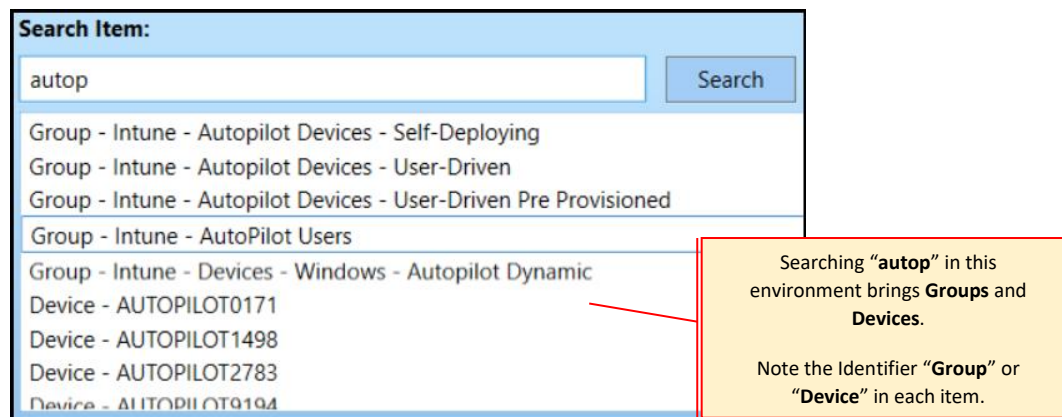
Starting in **GIA3**, in addition to the standard search for Entra ID **groups**, you can also search for **devices** and **users**.

Also, was added the capability to search for **Entra ID Groups** using the object ID. This can be useful to search for deleted groups.

You can search by the following fields:

- Group Name
- Device Name
- User Display Name
- User UPN (mail)
- **If enabled**, you can search Entra ID **Group** by **Object ID**

Check the **example** below:

Searching "**autop**" in this environment brings **Groups** and **Devices**.

Note the Identifier "**Group**" or "**Device**" in each item.

Version History

ver. 3.0 – April 04, 2024
    Added new themes including color-blind high contrast.
    Created a new settings dialog box with combos.
    Created a new panel for assignment detail.
    Created a new panel for details about group members.
    Logs folder location changed to %temp% folder.
    New icon.
    New title bar with Maximize/Restore function.
    Re-design window appearance
    Removed the undock window function.
    Show the result status of the assignment.
    New information tabs for assignments, groups, devices and users.
    Added Functions:
    – Autopilot devices.
    – Bring assignments target All Devices and All Users.
    – Clear button in membership search.
    – Filter assignments resulting information.
    – Information about Logged on user.
    – Information about Primary User for devices.
    – Information from Group, devices and users.
    – Member of from devices and users.
    – Merged all types of devices configurations in a single assignment item.
    – Status information from assignments (which are support).
    – Search assignments in UpLevel groups.
    – Search and retrieve information for devices and users.
    – Search function for members.
    – Search group by ID.
    BUG Fix
    – Created a clear button in the member search box.
    – Fixed catalog settings missing assignments.
    – Fixed columns in export csv file.
    – Fixed group search limit.
    – Fixed groups names on logs.
    – Fixed missing status bar messages.
    – Fixed tip color from Dark theme
    – Hand cursor for all buttons.
    – Search limit results for groups.

ver. 2.1 – Mai 25, 2023
    Re-design window appearance
    Removed description column.
    Single window app
    Added Functions:
    – Export All or Selected Assignment Types
    – Group Information
    – Member Detail
    – Member Search
    – Undock / detach Result Window
    BUG Fix
    – Error when app size is too big
    – Export All be inactive when any assignments are unchecked from settings
    – Fixed Graph paging when the result exceeds number of results
    – Fixed Group information devices Ids
    – Fixed interface errors
    – Fixed theme colors missing objects
    – Group members count was not working

ver. 2.0 — April 17, 2023
    Added inclusion or exclusion group information for supported assignments.
    Checking Intune Assignments scroll bar support.
    Encrypted tenant data in config file
    Multi window support
    Scroll bar on Assignments window.
    Setting new options to enable/disable assignments information.
    Added Functions:
    — Autopilot Configurations
    — Enrollment Restrictions
    — iOS App Provisioning Profiles
    — Proactive Remediations
    BUG Fix0
    — Fixed multi errors messages when a group couldn't be retrieved
    — Fix checkbox color in dark theme
    — Fixed CSV Export Format
    — Fixed Description texts
    — Fixed Sign-Out when using app secret
    — Minor interface bugs fixed

ver. 1.5 — November 07, 2022
    Added support to use app secret (optional)
    Apps now show available or required.
    Introducing the Acronym GIA
    Added Functions:
    — Policy Sets
    BUG Fix
    — PowerShell Scripts missing from report

ver. 1.4a — September 23, 2022
    Graphical Interface enhancements
    New title bar and window visuals
    Added Functions:
    — Auto Restart when changing Settings
    BUG Fix
    — Fixed Messages Box to show correct information
    — Export to file now include all Items
    — Minor bugs fixed
    — Save config file if was changed
    — Windows position in current monitor

ver. 1.3b — September 20, 2022
    Created customized Title Bar
    Created Settings Dialog to Configure Client ID and Tenant
    Dark Theme
    First released Beta Version
    Added Functions:
    — App Configuration Policies
    — App Protection Policies
    BUG Fix
    — Fixed Alphabetical order in results

ver. 1.3a — September 14, 2022
    Created Help function and Doc.
    Released this version to Alpha Test.
    Added Functions:
    — Export to CSV File
    — Show All Intune Assignments Regardless of Azure AD Group
    BUG Fix
    — Fixed error on export Applications with Description in Multiline
    — Minor errors fixed

```
ver. 1.2b − September 10, 2022
      First beta version using C#.Net.
      Added Functions:
      − Conditional Access
      − Created Sign−Out Function
      − Created writeLog Function
      − PowerShell Scripts


ver. 1.2a − September 09, 2022
      Added Functions:
      − Applications
      − Device Compliance Policies
      − Device Configuration Profiles
      − Device Settings Catalog
      − Endpoint Security Policies
      BUG Fix
      − Fixed Dialog Windows
      − Minor errors fixed


ver. 1.1a − September 02, 2022
      Added Functions:
      − Applications
      − Device Compliance Policies
      BUG Fix
      − Fixed interface commands to Search
      − Enhanced GUI objects
      − Minor errors fixed


ver. 1.0a − August 30, 2022
      Created the Main Form
      Function to Check Adm Templates
      Function to search AAD Groups
      Starting to rebuild in C# .NET framework.

ver. 0.2b − August 25, 2022
      Added Endpoint Security Policies
      BUG Fix
      − Minor errors fixed


ver. 0.1c − August 24, 2022
      Removed the need for AzureAD Module increasing speed in Groups query.
      BUG Fix
      − Fix two requests for authentication
      − GUI fixes and improvements
      − If a new group was created with Script running it was not possible to find the new
group
      − Fix description column position
      − Fix groups search
```

ver. 0.1b — August 22, 2022
    Created the name "Get Intune Assignments".
    Function to search and retrieve assignments from the selected group.
    Function to retrieve all Assigned items from Intune regardless of any group.
    The First version of who worked without many bugs.
    Added Functions:
    – Applications
    – Device Configuration Profiles
    – Delivery Optimization
    – Device Restrictions
    – Identity Protection
    – Trusted Certificate
    – Device Settings Catalogs
    – PowerShell Scripts

ver. 0.1a — July 27, 2022
    The First version with GUI.
    Added Administrative Templates and Device Catalogs

ver. 0.0b — July 05, 2022
    New script to get Compliance Policies

ver. 0.0a — June 15, 2022
    Just a bunch of command line scripts in PowerShell to get Configuration Profiles and
Apps.

Thanks to all who collaborate and gave feedback to make GIA Better.